



# Nuance SafeCom Controller

## *Administrator's Manual*

D60700-07  
October 2012



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# 1 Introduction

## 1.1 SafeCom Controller


The SafeCom Controller offers user authentication and Pull Printing independent of printer manufacturer. Users log in either through the attached SafeCom Color Front-end or stand-alone SafeCom ID Device.

SafeCom Controller works together the SafeCom G3 Server software and is designed to help companies and organizations gain control over their printing costs and document security. The SafeCom solution can be enhanced with add-on modules to build customer specific and scalable solutions.


## 1.2 Requirements

- Possible to connect to printer via network.
- One free network socket (RJ-45 port, 10/100 BASE-TX).
- One free power socket.
- Web browser with use of JavaScript (Active Scripting) enabled.
- It is strongly recommended to use a fixed IP address for the SafeCom Controller and the printer.
- SafeCom device license.

## 1.3 SafeCom Controller product

<p><b>SafeCom Controller</b></p> 	<p>Features a built-in 2-port switch (no need for additional network outlet). Supports full-duplex transmission. Uses software S80 508.nnn, where nnn must be 760 or higher. Connects to printer via network port. Supplied with a switch mode power supply (Input: 100-240V~, 50-60Hz/500mA, Output: 12V, 1.25A).</p>
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## 1.4 SafeCom Color Front-end product

<p><b>SafeCom Color Front-end</b></p> 	<p>Features a color touch-screen (4.3 inch LCD, 480 x 272 pixels, 24-bit color) with an optional built-in card reader. It can be configured to accept login by card and/or code. The SafeCom Front-end runs the Microsoft Windows CE operating system. When touching the screen you can either use your fingertips or a PDA pen. Color is black. Dimensions: 13.7 x 19.0 x 4.4 cm.</p>
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## 1.5 SafeCom ID Devices

**Table 1 SafeCom Controller supported SafeCom ID Devices**

Identification Method	Card Reader USB p/n	Card Reader Serial p/n	Color Front-end Serial p/n
Windows authentication / User code			672040
SafeCom AWID Reader	696020	696010	696040
SafeCom Barcode Reader	694020	694010	
SafeCom Casi-Rusco Reader	652420	652010	652040
SafeCom Cotag Reader	678020		67804x
SafeCom Deister Reader			65504x
SafeCom EM Reader [E]	674120	674110	674140
SafeCom EM Reader [R]	674420		
SafeCom Felica Reader	697420	697410	697440
SafeCom HID Reader 35 bit [E]	673120	673110	673140
SafeCom HID Reader 35 bit [R]	673420		
SafeCom HID Reader 37 bit	671120	671110	671140
SafeCom iCLASS Reader [E]	654120	654110	654140
SafeCom iCLASS Reader [R]	654420		
SafeCom Indala Reader 26 bit	670420	670010	670040
SafeCom Indala Reader 29 bit	651020	651010	651040
SafeCom IoProx	658420	658010	658040
SafeCom Legic Reader [E]	679120	679110	679140
SafeCom Legic Reader [R]	679420		
SafeCom Magnetic Card Reader (Tr 1)		959010	959040
SafeCom Magnetic Card Reader (Tr 2)		954010	691040
SafeCom Magnetic Card Reader (Tr 3)		657010	657040
SafeCom Magnetic Card Reader DD (Tr 1)	692010		
SafeCom Magnetic Card Reader DD (Tr 2)	691020		
SafeCom Magnetic Card Reader DD (Tr 3)	692020		
SafeCom Mifare Reader [E]	970120	970110	970140
SafeCom Mifare Reader [R]	970420		
SafeCom Nedap Reader	653020	978990	653040
SafeCom NexWatch Reader	698420	698010	698040

**Table 1** shows the supported identification methods. The ID device is either fitted or supplied with a 1.8 - 2.0 m cable. Additional information about the ID devices is available in [SafeCom G3 Administrator's ManualD60603](#).

## 1.6 Copy Control on MFPs

If you wish to control the copy function on Multifunction Printers (MFPs) the MFP must be networked and in most cases you need a special SafeCom MFP cable. The tables in the following shows the MFPs that allow the SafeCom solution to control the copy function and count the number of copied pages (requires SafeCom Tracking).

The number (nnn010) is the SafeCom part number of the cable. Please contact [safecom\\_sales@nuance.com](mailto:safecom_sales@nuance.com) to hear about support for other MFPs.

Canon		SafeCom MFP cable p/n	Notes
Canon MEAP-enabled MFPs		None	SafeCom Go Canon
Canon imageRUNNER 1022, 2020, 2200, 3025, 3035, 3300, 4580i, 5000, 5000i, 5020i, 6000, 6000i, 6020i	A	961010	SafeCom Controller.
Canon imageRUNNER 3100C	AB		

HP		SafeCom MFP cable p/n	Notes
HP Color LaserJet CM4540 MFP HP LaserJet M4555	AB  A	965010	SafeCom Controller.
HP LaserJet M3035 MFP, M4345 MFP, 4345mfp, M5035 MFP, M9040 MFP, M9050 MFP 9040mfp, 9050mfp HP Color LaserJet CM3530 MFP, CM4730 MFP, 4730mfp, CM6030 MFP, CM6040 MFP CM8050 MFP, CM8060 MFP, 9500mfp	A     AB	None	SafeCom Go HP.
HP LaserJet M3035 MFP, M3027 MFP M4345 MFP, 4345mfp, M5025 MFP, M5035 MFP, 8150mfp, 9000mfp, 9000lmfp, M9040 MFP, M9050 MFP 9040mfp, 9050mfp HP Color LaserJet CM3530 MFP, CM4730 MFP, 4730mfp, CM6030 MFP, CM6040 MFP 9500mfp	A     AB	965010	SafeCom Controller.
HP LaserJet 9055mfp, 9065mfp	AD	960010	SafeCom Controller.

Konica Minolta		SafeCom MFP cable p/n	Notes
Konica Minolta Bizhub C250, C300, C350, C351, C352, C450, C600		662010	SafeCom Controller.
Konica Minolta Bizhub C203, C253, C353, C451, C550, C650		960010	SafeCom Controller.
Konica Minolta 7022, 7085, 7115, 7118, 7130, 7135, 7145, 7155, 7165, 7222, 7255, 7272		960010	SafeCom Controller.



Kyocera Mita		SafeCom MFP cable p/n	Notes
<b>Kyocera Mita</b> KM-2530, KM-3035, KM-3530, KM-4035, KM-5035, KM-C850, KM-C2630	C	661010	SafeCom Controller. Network interface card firmware must be up-to- date, e.g. IB-21E version 1.3.3 SB-110 version 9.5.17 ...

Océ		SafeCom MFP cable p/n	Notes
<b>Océ CS</b> CS171, CS175, CS191, CS230		662010	SafeCom Controller.
<b>Océ CS</b> CS163, CS173, CS193, CS231, CS240, CS250		960010	SafeCom Controller.
<b>Océ VarioPrint</b> 2045/55/65, 2050-70, 3145E, 3155E, 3165E		968010	SafeCom Controller. MFP's firmware must support printing via port 9100. Copy Control Interface (CCI) from Océ (p/n 5583625)

Panasonic		SafeCom MFP cable p/n	Notes
<b>Panasonic</b> ...		664010	

Ricoh <sup>1</sup>		SafeCom MFP cable p/n	Notes
MP C2050, MP C2550, MP C2800, MP C3300, MP C4000, MP C5000		None	SafeCom Go Ricoh
MP 2550, MP 3550, MP 4000, MP 5000, MP C6000, MP C7500		None	SafeCom Go Ricoh
MP 1100, MP 1350, MP 5500, MP 6500, MP 7500, MP 9000, MP C2500, MP C3000, MP C3500, MP C4500		Included	SafeCom Go Ricoh
MP 2510, MP 3010, MP 3500, MP 4500 2051 (DSm651), 2060 (DSm660), 2075 (DSm675), 3025 (DSm725), 3030 (DSm730), 3035 (DSm735), 3045 (DSm745), 3224C (DSc424), 3228C (DSc428), 3232C (DSc432), 3235C (DSc435), 3245C (DSc445), 3260C (DSc460), 5560C (CS555),		Included	SafeCom Go Ricoh
450, 650, 1022, 1027, 1032, 1035, 1045, 1060, 1075, 1515, 2015, 2018, 2018D, 2022, 2027, 2035, 2035e, 2045, 2045e, 2051, 2060, 2075, 2090, 2105		966010	SafeCom Controller.
1224C, 1232C, 2232C, 2238C, 3131, 3224C, 3228C, 3232C 3235C, 3245C, 3260C, 5560C, CL7000 with Copy Feature Expander Kit	B	966010	SafeCom Controller.

<sup>1</sup> Ricoh MFPs are also supported when sold under the NRG, Gestetner, Infotec, Lanier, Nashuatec, Rex-Rotary and Savin brands.

Sharp		SafeCom MFP cable p/n	Notes
Sharp OSA-enabled MFPs		None	SafeCom Go Sharp. Sharp product key for the Sharp External Account Module (MX-AMX3) MUST be registered on the MFP.
Sharp MX MX2300N, MX2700N, MX3501, MX4501	AB	663010	SafeCom Controller.
Sharp AR Color AR-C260M		963010	SafeCom Controller.
Sharp AR Mono and MX-M AR-M350, AR-M450, AR-M276, AR-M351, MX-M350		665010	SafeCom Controller.

Xerox		SafeCom MFP cable p/n	Notes
Xerox WorkCentre Pro 232, 238, 245, 255, 265, 275	AB	None	SafeCom Go Xerox. <b>Xerox EIP</b> must be enabled.
	AB	962010	SafeCom Controller and Xerox Foreign Interface Kit. Xerox p/n 498K10230.
Xerox Phaser 3635	AB	962010	SafeCom Controller and Xerox Foreign Interface Kit Xerox p/n 097N01676
Xerox WorkCentre 4250, 4260	AB	962010	SafeCom Controller and Xerox Foreign Interface Kit Xerox p/n 097N01676
Xerox WorkCentre 5632, 5638, 5645, 5655, 5665, 5675, 5687	AB	None	SafeCom Go Xerox. <b>Xerox EIP</b> must be enabled.
	AB	962010	SafeCom Controller and Xerox Foreign Interface Kit. Xerox p/n 498K10230.
Xerox WorkCentre 7228, 7235, 7245	AB	962010	SafeCom Controller and Xerox Foreign Interface Kit. Xerox p/n.
Xerox WorkCentre 7232, 7242	AB	None	SafeCom Go Xerox. <b>Xerox EIP</b> must be enabled.
	AB	962010	SafeCom Controller and Xerox Foreign Interface Kit. Xerox p/n.
Xerox WorkCentre 7328, 7335, 7345	AB	None	SafeCom Go Xerox. <b>Xerox EIP</b> must be enabled.
	AB	962010	SafeCom Controller and Xerox Foreign Interface Kit. Xerox p/n.
Xerox WorkCentre 7655, 7665, 7675	AB	None	SafeCom Go Xerox. <b>Xerox EIP</b> must be enabled.
	AB	962010	SafeCom Controller and Xerox Foreign Interface Kit. Xerox p/n 098S04886.
Xerox WorkCentre 7132, 7228, 7235, 7245	AB	962010	SafeCom Controller and Xerox Foreign Interface Kit. Xerox p/n 498K14140.
Xerox WorkCentre Pro 32, 35, 40, 45, 55, 65, 75, 90, 165, 175	AB	962010	SafeCom Controller and Xerox Foreign Interface Kit. Xerox p/n 498K10230.
Xerox Document Centre 212, 214, 220, 230, 240, 255, 265, 332, 340, 420, 425, 426, 430, 432, 440, 460, 470, 480, 490, 535, 545, 555	AB	962010	SafeCom Controller and Xerox Foreign Interface Kit. Xerox p/n ?

Xerox		SafeCom MFP cable p/n	Notes
Xerox WorkCentre Pro C2128, C2636, C3545	AB	962010	SafeCom Controller and Xerox Foreign Interface Kit. Xerox p/n 098S04822.
Xerox DocuColor 12, 240, 250, 1632, 2240, 3535 Xerox WorkCentre M24, M118, M123, M128, M133	AB	962010	SafeCom Controller and Xerox Foreign Interface Kit. Xerox p/n 498K14140.
Xerox WorkCentre Pro 123, 128, 133	AB	962010	SafeCom Controller and Xerox Foreign Interface Kit. Xerox p/n 497K02202.

**Note:** Unless mentioned explicitly the MFPs can only report the number of copied pages and does not provide information about paper size or use of color and duplex.

- A Supports paper size and duplex information.
- B Supports color detection on a per copy page basis.
- C Page counter is updated at end of copy job and after every 50 or 100 pages depending on model.
- D Page counter is updated at end of copy job.

**Note:** Some of the MFPs that are unable to provide information about paper size or use of color try to compensate for this lack of detail by reporting a higher number of copied pages. One popular method is to report that two pages are copied when actually one monochrome A3 page or one color A4 page is copied. Likewise one color A3 page would be reported as 4 pages.

When a SafeCom Controller and stand-alone card reader is used, copying can begin only after any pending Pull Print jobs have been printed. If a SafeCom Front-end is attached the user is free to log in to copy, print or both.

## 1.7 Available documentation

### SafeCom Smart Printing

- [SafeCom Smart Printing Administrator's Quick Guide D10600](#)  
How to install a SafeCom Smart Printing solution.

### SafeCom G3

- [SafeCom G3 Administrator's Manual D60603](#)  
A comprehensive manual that the administrator should consult to make a successful SafeCom solution. The manual includes information about SafeCom Tracking, SafeCom Rule Based Printing, SafeCom Client Billing, and SafeCom Pay.

## 1.8 About this manual

This manual applies to SafeCom G3 Server version S82 070.420\*06 and Nuance SafeCom Controller version S80 508.780\*66.

This manual is organized as follows:

- Chapter 1 **Introduction** lists the supplied SafeCom documentation, lists system requirements and how this manual is organized.
- Chapter 2 **SafeCom Controller** describes the installation and the web interface of the external solution.
- Chapter 3 **Using SafeCom Color Front-end** describes how to interact with the SafeCom Color Front-end.
- Chapter 4 **Troubleshooting** contains hints for troubleshooting.
- Chapter 5 **Regulatory information** contains regulatory information.

## 1.9 Document history

### Revision D60700-07

- Cosmetic changes
- Added information on how to enable copy locking on Xerox WorkCentre 75xx (2.6.11)
- Added paragraph on *Correct disposal of this product* to section 5

### Revision D60700-06

- SafeCom Controller version S80 508.780\*62.
- SafeCom G3 Server version S82 070.420\*06
- HP Future Smart devices CM4540 MPF and M4555 are now supported (1.6).
- Xerox Phaser 3635 is now supported (1.6).
- Updated section on how to SafeCom setup Xerox Phaser 3635 via FDI instructions (2.6.10).

### Revision D60700-05

- SafeCom Controller version S80 508.780\*55.
- Xerox WorkCentre 4250 and 4260 are now supported (1.6).

### Revision D60700-04

- SafeCom Controller version S80 508.780\*44.

Updated section:

- Lights on SafeCom Controller (2.5).
- Added section: Copy Control with SafeCom MFP Cable (2.6).
- Possible to reference multiple SafeCom servers (2.7.3).
- Added details about Post Tracking support (2.7.4).
- Added section: Monitor link to SafeCom Color Front-end (2.10).

### Revision D60700-03

- SafeCom Controller version S80 508.780\*38.
- How to control FTP and TELNET access (2.8.18).
- Added new sections to chapter 4 Troubleshooting.

### Revision D60700-02

- SafeCom Controller version S80 508.780\*37.
- Added section on TCP/IP settings including WINS (2.7.5).

### Revision D60700-01

- SafeCom Controller version S80 508.780\*36.
- Initial version.



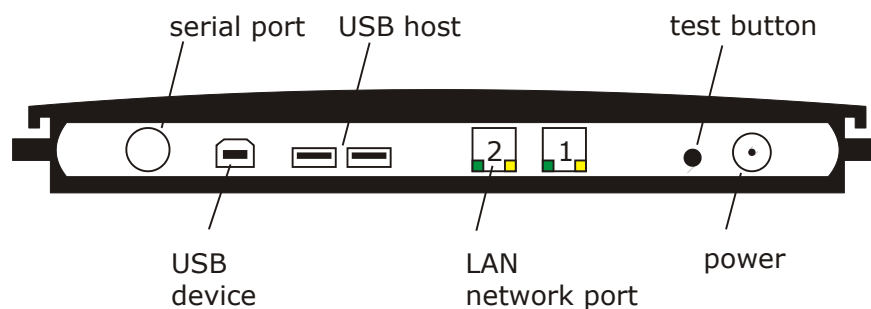
## 2 SafeCom Controller

### 2.1 Overview

Make sure the SafeCom G3 Server software installation has been completed as described in for example [SafeCom Smart Printing Administrator's Quick Guide D10600](#).

### 2.2 Connect hardware

When powered up, the hardware automatically discovers the server software.



*Figure 1 SafeCom Controller's rear panel*

1. Switch off the power to the printer.
2. Connect a network cable to the **LAN** port on the rear panel of the SafeCom Controller. Connect the other end of the cable to the network.
3. Connect a network cable to the printer. Connect the other end of the cable to the SafeCom Controller's other network port.
- 4a. Connect the SafeCom Controller and the SafeCom Color Front-end using the supplied serial cable. Refer to 2.6 if a SafeCom MFP cable has been supplied and you want to have Copy Control.
- 4b. Connect the SafeCom Controller and the stand-alone SafeCom Card Reader (USB port or Serial port).
5. Connect the power supply to the SafeCom Controller. When you power on, you must wait approx. 1 minute while SafeCom initializes.
6. Switch on the power to the printer.

Next the SafeCom Controller needs to be setup to reference the SafeCom G3 Server. Choose one of the two following methods:

- **A SafeCom Color Front-end is connected**  
Complete the setup screens on the **SafeCom Color Front-end** (2.3).
- **A stand-alone SafeCom Card reader is connected**  
Use the **Add device** function in **SafeCom Administrator** (2.4).

## 2.3 Setup process via SafeCom Color Front-end

The SafeCom Color Front-end initiates the setup process when it is not configured (either fresh out of the box or after a restore factory default). User **MUST** be Technician or Administrator in the SafeCom solution.

1. The screen shows: **Searching. Please wait...**  
Broadcast messages are sent to find the SafeCom Server.
- 2a. **Select SafeCom Server.** Select one on the list and touch **Select**.
- 2b. If no SafeCom Server is found you are prompted for the IP address.  
**Server IP.** Enter the IP address and touch **OK**.  
The dialog will reappear until the SafeCom Controller has been able to contact the SafeCom Server.
3. **Select Printer Driver.** Touch **Select**.
4. **Select Printer Connection.** Touch **Network - 9100 port**. Touch **Select**.
5. **Printer IP.** Enter IP address and touch **OK**.  
The screen shows: **Setup Completed. Restarting**

## 2.4 Setup process via SafeCom Administrator

The SafeCom Controller's LAN light changes from flashing to fixed when an IP address is set. Next you need to determine the IP address of the SafeCom Controller so you can add it to the SafeCom solution.

- **Find IP address via broadcasting**  
Use **SafeCom Administrator** and the **Broadcast** function. However, broadcasting does not work if the SafeCom Controller is on a different VLAN.
  - **Find IP address in the DHCP server**  
Log in to the **DHCP server** and lookup the assigned IP address based on the MAC address. The MAC address of the SafeCom Controller is printed on the white label on the bottom of the SafeCom Controller. The MAC address is a 12-digit hexadecimal number. Example: 00C076FF00F2.
1. Start **SafeCom Administrator**.
  2. Log in to the server by double-clicking its Group name listed to the left.
  3. Enter **User logon** (default is ADMIN) and **Password** (default is nimda).

**IP address known from DHCP server:**

- 4a. Click **Add device**.
- 5a. In the **Address** field for Device/Controller, enter the IP address or hostname of the SafeCom Controller and click **Next**. Proceed to step 8.

**Find it via Broadcasting:**

- 4b. Click on the **Find** button and select **Devices**.
- 5b. Click **Broadcast...**
- 6b. Right-click on the SafeCom Controller in the list and click **Add device**.
- 7b. Click **Next**.

8. Information is retrieved from the SafeCom Controller. Click **Next**.
9. Enter the **Printer address** (the device IP address or host name) and click **Next**.
10. Information is then retrieved from the device. Click **Next**.
11. Now select the type of device and click **Next**.
12. Enter the username and password.
13. On the **Settings** tab, make sure to specify the properties of the device (duplex and color supported).

**Add Device - SafeCom Controller**

Settings | Charging scheme | License

**SafeCom Controller**  
Version: 312.TST\*FE      MAC: 00c076f00054

**General**

Name: SafeCom Controller  
Model: SafeCom Controller  
Home server: SCDKBHOW00022  
Device server: <None>  
Org. unit: <None>  
Branch: <None>  
Location:   
Device address: 172.16.6.195

**Capabilities**

☐ Duplex supported      ☐ Restricted access  
☐ Color supported      ☒ Push print  
                                 ☐ Allow Pay user

Open in browser      Add      Cancel

14. Click **Add** to register the device and save it in the database.

After approx. 1 minute the SafeCom Controller has restarted and you can verify the connection to the printer by pressing the **test** button once on the SafeCom Controller's rear panel.

## 2.5 Lights on SafeCom Controller

The SafeCom Controller is equipped with four green colored lights labeled: PRINT, LOGIN<sup>2</sup>, LAN, and SESSION. These lights are either on or off and indicate different sequences as listed below:

State	PRINT	LOGIN	LAN	SESSION
Online	n/a	n/a	ON	n/a
User logging in/out	n/a	Blinking	ON	n/a
User logged in	n/a	ON	ON	n/a
Acquiring IP address	n/a	n/a	Blinking	n/a
Unable to acquire IP address from DHCP	n/a	n/a	Blinking fast	n/a
Out of order (No connection to SafeCom Server)	n/a	n/a	ON	Blinking
Fatal error	ON	ON	ON	ON
Heap corrupt	Blinking	Blinking	Blinking	Blinking
Ext Heap corrupt	Blinking	n/a	Blinking	Blinking
Mini-ftp mode	Running	Running	Running	Running

---

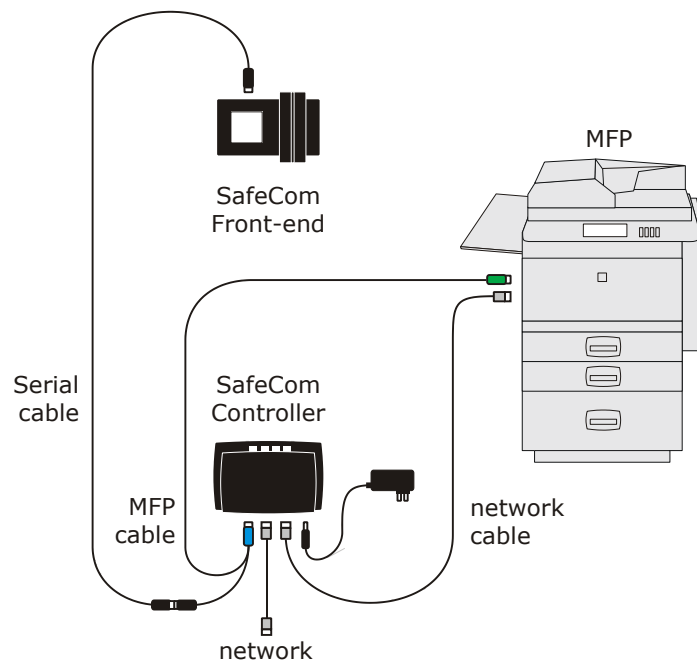
<sup>2</sup> The text LOGIN is not printed on the cover of older SafeCom Controllers.

## 2.6 Copy Control with SafeCom MFP Cable

The SafeCom MFP cable is printer dependent and has the following characteristics:

- It is a split cable with three connectors.
- A blue PS2 male connector connects to the SafeCom Controller's serial port.
- A black PS2 female connector connects to the SafeCom serial cable supplied with your SafeCom Color Front-end or to the cable attached to your stand-alone SafeCom Card Reader.
- An MFP specific FIH (Foreign Harness Interface) connector. Some MFP vendors also refer to this as the Click Counter Interface. To access the MFP's FIH connector you may need to get inside the MFP. Under any circumstances you are encouraged to seek advice and instructions from your MFP vendor, as this information is not always available via their public web site.

Depending on the MFP it may also be necessary to make some specific setup via the MFP's control panel or use special software to activate the use of Copy Control.



Connect SafeCom MFP Cable:

1. Power off the MFP and the SafeCom Controller.
3. Connect the SafeCom MFP Cable.  
Refer to the relevant subsections for additional instructions.
4. Power on the MFP.
5. Power on the SafeCom Controller.

On the SafeCom Controller:

6. Open the **Advanced Configuration** web page (2.7.2).
7. Click **Printer** and change **Copy Enabled** to **YES** and change **Use auto configuration** to **YES**.

Normally **Print Manufacturer** will be filled-in automatically to reflect one of these: **HP, RICOH, CANON, SHARP, XEROX, OCE, KYOCERA, CANON\_OLD, PANASONIC, OCE\_OLD, SHARP\_AR** or **OTHER**. If there is a problem controlling the copy interface you should experiment using the two options: **GENERIC\_DSR\_OFF** and **GENERIC\_DSR\_ON**.

8. Click **Save and Continue**.
9. Click **Restart**.

On the MFP:

10. Refer to the subsections in the following for additional instructions.

### 2.6.1 SafeCom MFP Cable Canon

Connect the SafeCom MFP Cable's white connector to the MFP's FIH port.

**Note:** *If you try to make copies without being logged in via SafeCom, the MFP's control panel displays **You must insert a control card**.*

### 2.6.2 SafeCom MFP Cable HP

This applies to HP LaserJet M3035 MFP, CM3530 MFP, M4345 MFP, 4345mfp, CM4730 MFP, 4730mfp, M5035 MFP, CM6030 MFP, CM6040 MFP, 8150mfp, 9000mfp, 9000lmfp, M9040 MFP, 9040mfp, M9050 MFP, 9050mfp and 9500mfp.

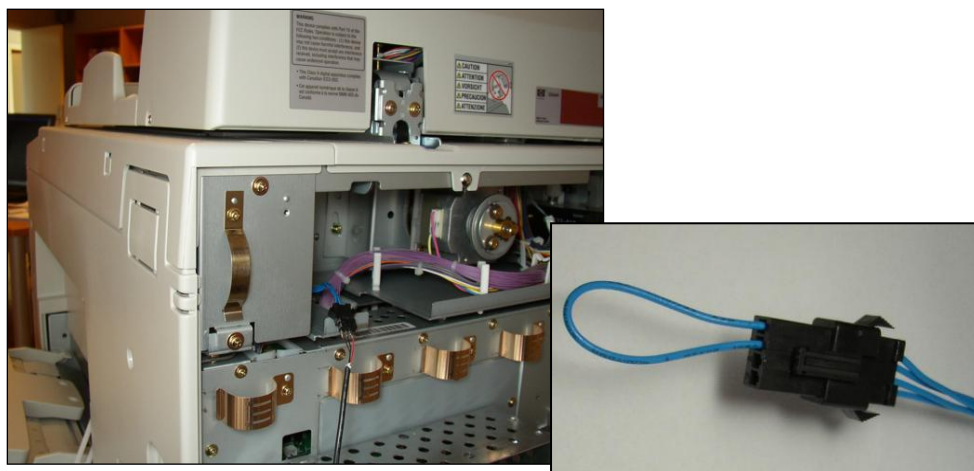
The MFP's FIH connector is located on the MFP's rear panel. Connect the SafeCom MFP Cable's green PS2 connector to the FIH port.

1. Use software from HP to enable the Foreign Interface Harness (FIH). Refer to the MFP's manual or go to [hp.com](http://hp.com) and search for 'Foreign Interface Harness'.

**Note:** *If you try to make copies without being logged in via SafeCom, the MFP's control panel displays **Copier Disabled. Please Check the External Copy Control Device**.*

### 2.6.3 SafeCom MFP Cable HP 9055mfp and 9065mfp

The MFP's FIH connector is located behind the MFP's back cover. See pictures below. Remove the back cover. Remove the male connector with the two wires and connect the equivalent black connector from the supplied SafeCom MFP cable.



1. Power on the MFP under the 25 service mode. First ensure that the main power switch on the back of the MFP is turned on and the sub-power button on the front of the MFP is turned off. Then, while holding down the keys "2" and "5" on the control panel, turn on the sub-power button (SW2). The Memory setting mode menu screen will appear.
2. Select the "Software SW setting" menu.
3. Set Dipswitch 4-4 to ON (1) so that Key Counter removal recovery is enabled.
4. Set Dipswitch 9-0 to OFF (0) so that the operation at key counter removal (copy) is the same as the stop key, instead of immediate stop (jam).
5. **\*\*OPTIONAL**—To change the message displayed when FIH becomes disabled, set Dipswitch 9-2 and 9-3 using the following table:

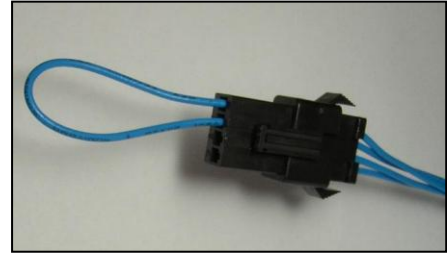
Mode	9-2	9-3
Please insert key counter.	0	0
Please insert coin.	0	1
Please insert copy card.	1	0
Please insert key counter.	1	1

6. Press "Return" to exit the "Software SW setting" menu.
7. Power-cycle the copier using the sub-power button.
8. Turn on the external job accounting device.

**Note:** If you try to make copies without being logged in via SafeCom, the MFP's control panel displays **Please insert key counter**.

## 2.6.4 SafeCom MFP Cable Konica Minolta

Locate the MFP's FIH connector inside the MFP. Remove the male connector with the two wires and connect the equivalent black connector from the supplied SafeCom MFP cable.



1. On the MFP's control panel press **COPY**.
  2. Press **HELP**.
  3. Touch **Key Ope mode**.
  4. Touch **3. Scanner**.
  5. Touch **1. Initial Setting**.
  6. Scroll to **SCAN W/O key count** and touch **EDIT** to change this setting to **Not valid**.
  7. Touch **RETURN**.
  8. Touch **RETURN**.
  9. Touch **RETURN**.
- 
1. Set Dipswitch 01-0 to OFF (0) so that the operation of the key counter removal is the same as the stop key, instead of immediate stop (jam).
  2. Please ensure that printing is possible without key counter.

**Note:** On the SafeCom Controller's *Printer* web page (2.7.4) you need to set **Printer Manufacturer** to **OCE**. If you try to make copies without being logged in via SafeCom, the MFP's control panel displays **Please insert key counter**.

## 2.6.5 SafeCom MFP Cable Kyocera Mita

1. Remove the MFP's rear cover.
  2. Locate the 4-pin connector of the MFP's key counter wire at the top left corner inside the printer. The connector's 4 wires are colored blue, yellow, red and turquoise.
  3. Connect the SafeCom MFP Cable's white connector to the MFP's FIH connector.
  4. Mount the MFP's rear cover back on.
- 
5. On the MFP' control panel press the **COPY** button. Enter the 8-digit code to bring the MFP into maintenance mode.
  6. Enter the maintenance number **204** and press **Start** to set key-card/key-counter.
  7. Touch **KEY-COUNTER** and press **Start**.
  8. Enter the maintenance number **001** and press **Start** to return to normal copy mode.

**Note:** On the SafeCom Controller's *Printer* web page (2.7.4) you need to set **Printer Manufacturer** to **KYOCERA**. If you try to make copies without being logged in via SafeCom, the MFP's control panel displays **Insert key counter**.



### 2.6.6 SafeCom MFP Cable Océ

On the Océ CS series:

1. On the MFP press the **Func./Counter** button.
2. On the touch-screen click **Details**.
3. Press the designated sequence of STOP button and digits.
4. Touch **Management Function Choice**.
5. Touch **Key Counter Only**.
6. Touch **Message**.
7. Touch **Type2**.
8. Touch **End**.
9. Touch **Exit**.

On Océ VarioPrint series:

Requires Copy Control Interface (CCI) from Océ (p/n 5583625). Install it according to the instructions provided by Océ.

1. Turn on the print engine in SDS mode.
2. Select the SDS test "T90: Configuration" and set the configuration of CCD-A and / or CCD-B or external finisher.
3. Set the configuration in the **Key Operator mode** for the **Copy Control Devices**.
4. Select **Accounting --> copy charge device --> on**.
5. Check the installation of the SafeCom Controller and SafeCom MFP cable.

## 2.6.7 SafeCom MFP Cable Ricoh

Connect the SafeCom MFP Cable's white 4-pin connector to the Ricoh MFP's FIH connector.

On newer Ricoh MFPs:

1. On the MFP press the **User Tools** button (<>/123).
2. On the touch-screen click **System Settings** and then **Administrator Tools**.
3. Click **Key Counter Management** and select the **Copier** function and deselect the **Printer** function. Click **OK**.
4. Click **User Authentication Management**.
5. Select **Off**. Click **OK**. If you intend to have a mix of user authentication methods, you should ensure that no other methods are conflicting with the ones controlled by the SafeCom solution (that is Copy and/or Scan).
6. Click **Exit** and **Exit** to leave **User Tools**.

On older Ricoh MFPs:

1. On the MFP press the **User Tools** button (<>/123).
2. On the touch-screen click **System Settings** and then **Key Operator Tools**.
3. Click **Key Counter Management** and select **ON** for the **Copier** function and **OFF** for the **Printer** function. Click **OK**.
4. Click **User Code Management** and select **OFF** for the **Printer** function. Click **OK**.
5. Click **Exit** and **Exit** to leave **User Tools**.

**Note:** *If you try to make copies without being logged in via SafeCom, the MFP's control panel displays **Please insert key counter**.*

**Note:** *If you try to make copies without being logged in via the SafeCom solution the MFP's control panel displays **Set Key Counter**.*

It is not possible to copy or print when the MFP's **User Tools** are active.

## 2.6.8 SafeCom MFP Cable Sharp

Please contact [safecom\\_support@nuance.com](mailto:safecom_support@nuance.com)

## 2.6.9 SafeCom MFP Cable Xerox

How to install and enable copy control on Xerox MFPs depends on the model.

### Xerox WorkCentre Pro 35 and similar models

Install the Xerox Foreign Interface Kit P/N 498K03490 on the MFP according to the instructions. Connect the SafeCom MFP Cable's black DB-15 connector to the MFP's FIH port.

1. On the MFP press the **Access** button (button with key symbol).
2. Enter your password and touch **Enter**.
3. Touch **Go To Tools**.
4. Touch **Access and Accounting**.
5. Touch **Authentication Mode**.
6. Touch **Foreign Interface Device**.
7. Touch **Save**.
8. Touch **Close**.
9. Touch **Foreign Interface Device Setup**.
10. Touch **Inhibit Services**.
11. Touch **Copy Only** if you want the SafeCom solution to inhibit access to copying. Touch **All Services** if you want the SafeCom solution to inhibit all scanning services.
12. Touch **Save**.
13. Touch **Close**.
14. Touch **Exit Tools**.

### Xerox WorkCentre 7245 and similar models

Install the Xerox Foreign Interface Kit P/N 498K14140 (DSC 6061 XC from B.E.A.R. Solutions) on the MFP according to the instructions. Connect the SafeCom MFP Cable's black DB-15 connector to the MFP's FIH port.

To enter UI Diagnostics and set NVM values:

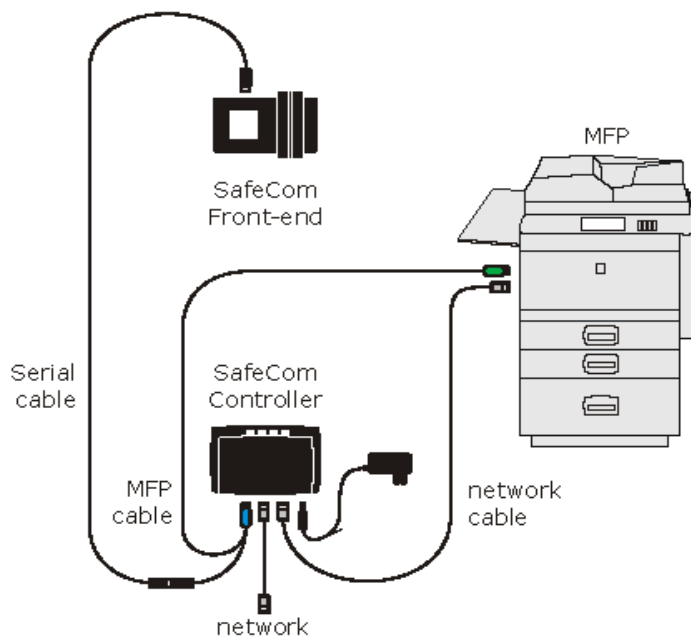
1. On the MFP press and hold the **0** button for 5 seconds. Press **Start**.
2. Enter **Code: 6789** and touch **Confirm**.
3. Press the **Access** button (button with key symbol).
4. Touch **System Settings**.
5. Touch **General Settings**.
6. Touch **Maintenance/Diagnostics**.
6. Touch **NVM Read/Write**.
7. In **Chain-Link** enter the appropriate NVM address. Touch **Confirm**.
8. Enter the **New Value** and touch **Save**.
9. Repeat step 7 and 8 until you have set the values specified in the instructions that came with the Xerox Foreign Interface Kit. Example on the 7245 you should set the NVM 850-007 to 1.
10. Touch **Close**.
11. Touch **Exit (keep log)**.
12. Touch **Yes** to keep the log (history) and restart the Xerox MFP.

**Note:** To remove the Xerox Foreign Interface Kit, to perhaps use SafeCom Go Xerox, you should follow the instructions that came with the Xerox Foreign Interface Kit and remember to disconnect the Kit at the right time.

## 2.6.10 SafeCom setup with FDI instructions for Xerox PH3635

PH3635 requires a FW version 20.102.03.013 or higher and that the SafeCom controller requires a SW version \*49 or higher.

1. Install the foreign device interface according to the according to the manual 097N01676 (1.6).
2. Ensure cable connections between SafeCom and PH3635 are correct. See diagram below.



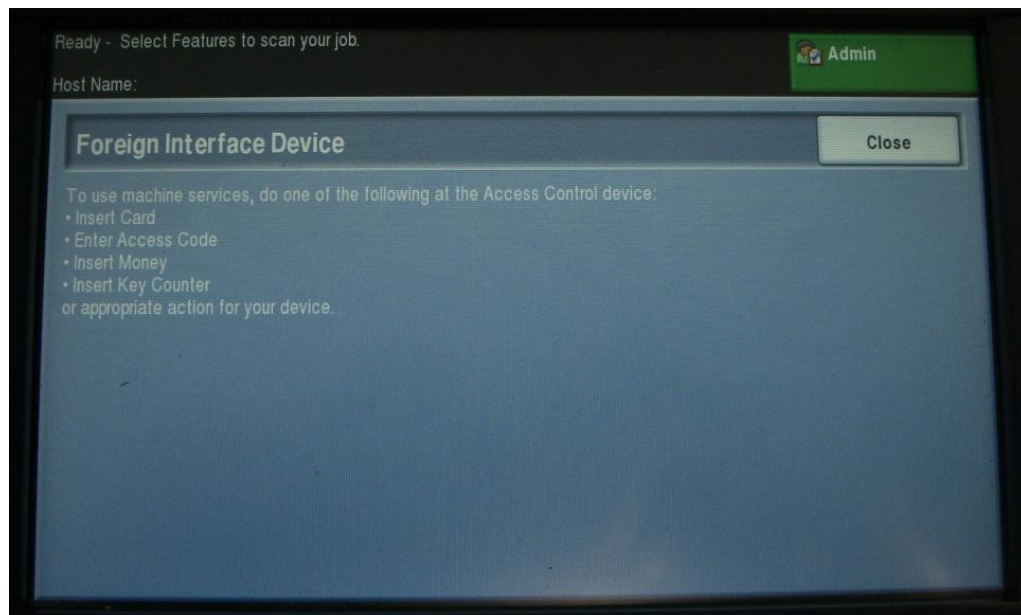
Setup FDI at the PH3635:

1. On the device touch-screen, tap the login button in the upper right corner.
2. Log in as system administrator with username (default is admin) and password (default is 1111).
3. Press **Machine Status** on the touch-screen.
4. Tap **Tools**.
5. Select **Accounting** from the menu and select **Authentication Mode**.
6. Set **Foreign Device Interface** to **On**.
7. Return to the **Accounting Enablement** dialog and select **Foreign Interface Device Setup**.
8. Set **Job Timer** to **Disable**.
9. Set **Print Job Control** to **Disable**.
10. Set **Inhibit Services** to **All Services**
11. Set **Internal Credits** to **Enable**.
12. Set **Image Counter** to **Charge**.

Setup SafeCom Controller via Web page:

1. Open the SafeCom controller webpage by entering the controller IP address in a browser (2.7.1).
  2. Select **Advanced Configuration**.
  3. Select **SafeCom** from **SafeCom Controller Administration** menu.
  4. Make sure to specify the **SafeCom Group Name**, **SafeCom Server Address**, and **SafeCom Server Port Number**.
- Note:** For the purpose of failover, it is possible to specify multiple SafeCom servers. The SafeCom Controller attempts to contact the servers in their order of appearance.
5. Click **Save & Continue**.
  6. Select **Printer** from the **SafeCom Controller Administration** menu.
  7. Set **Use auto configuration** to **Yes**.
  8. Set **Printer Manufacturer** to **Xerox**.
  9. Set **Printer Model** to **PH3635**.
  10. Set **Copy Enabled** to **Yes**.
  11. Click **Save & Continue**.
  12. On the **SafeCom Controller Administration** menu, select **TCP/IP**.
  13. Set **IP Lookup Method** to **Automatic** and make sure to check all three protocols (DHCP, BOOTP, and RARP).
  14. Check **Enable WINS** and click **Save & Continue**.

Once the setup is complete the device should display the following on the touch-screen.



### 2.6.11 Enable copy locking on Xerox WorkCentre 75xx

1. To access the relevant web page on the Xerox device use the following URL, replacing xxx.xxx.xxx.xxx with the IP address of the Xerox device:  
<http://xxx.xxx.xxx.xxx/diagnostics/holdFdiPrintJobs.php>  
(if prompted for login, then log in as administrator)

2. On the web page clear the **Hold Foreign Device Interface Network Print Jobs** checkbox.
3. Click **Apply**.

## 2.7 SafeCom Controller web interface

The SafeCom Controller web interface consists of multiple web pages, some of which can be password-protected. Most web pages include online help. The web interface is available in English.

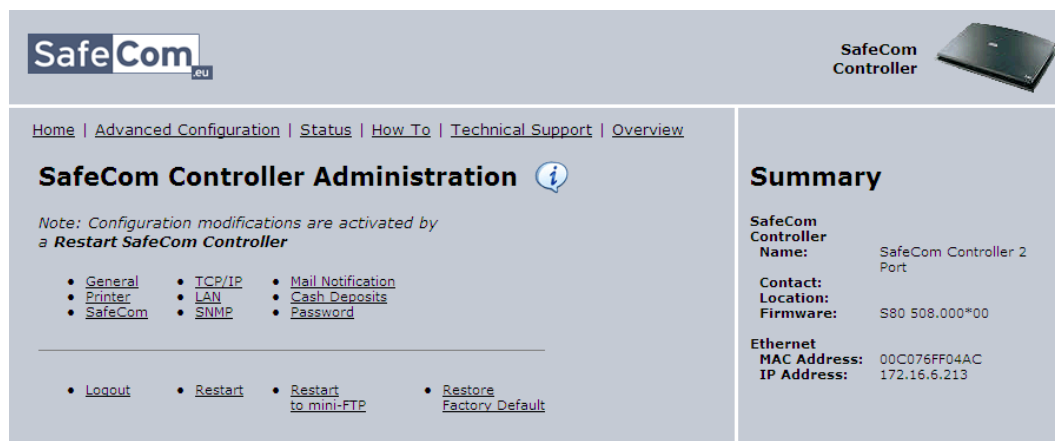
### 2.7.1 Log in to the SafeCom Controller web interface

1. Open a web browser and enter the IP address of the SafeCom Controller in the address field. Use of JavaScript (Active Scripting) must be enabled (4.15).
2. Click **Advanced Configuration** to open the **Advanced Configuration** web page (2.7.2).


**Note:** *If a password is set (2.8.3) you will be prompted for the password.*

### 2.7.2 Advanced Configuration web page

The **Advanced Configuration** web page can be accessed from the link on the SafeCom Controller opening page. If the page is password-protected you will be prompted for a user name and password.



**SafeCom** eu

SafeCom Controller 

[Home](#) | [Advanced Configuration](#) | [Status](#) | [How To](#) | [Technical Support](#) | [Overview](#)

### SafeCom Controller Administration

Note: Configuration modifications are activated by a **Restart SafeCom Controller**

- [General](#)
- [TCP/IP](#)
- [Mail Notification](#)
- [Printer](#)
- [LAN](#)
- [Cash Deposits](#)
- [SafeCom](#)
- [SNMP](#)
- [Password](#)

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- [Logout](#)
- [Restart](#)
- [Restart to mini-FTP](#)
- [Restore Factory Default](#)

### Summary

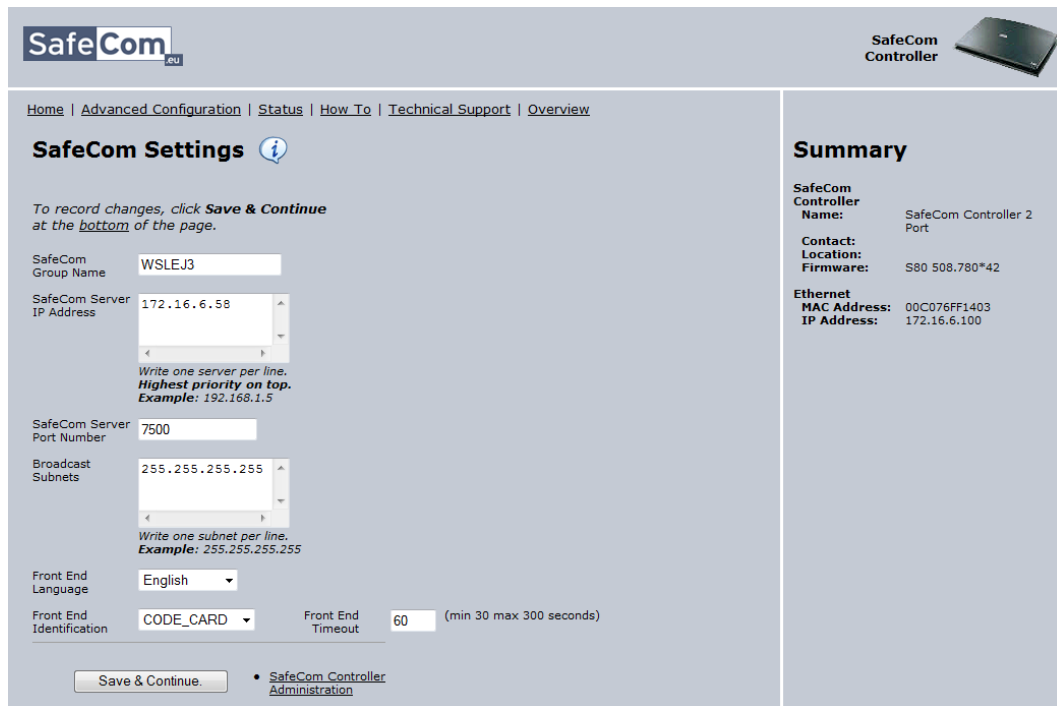
**SafeCom Controller**  
**Name:** SafeCom Controller 2 Port

**Contact:**  
**Location:**  
**Firmware:** S80 508.000\*00

**Ethernet**  
**MAC Address:** 00C076FF04AC  
**IP Address:** 172.16.6.213

### 2.7.3 SafeCom web page

The **SafeCom** web page can be opened from the **Advanced Configuration** web page (2.7.2) by clicking on **SafeCom**.



The screenshot shows the SafeCom web interface. At the top, there is a navigation bar with links: Home, Advanced Configuration, Status, How To, Technical Support, and Overview. The main content area is titled "SafeCom Settings" and includes a note: "To record changes, click **Save & Continue** at the bottom of the page." Below this, there are several configuration fields:

- SafeCom Group Name:** WSLEJ3
- SafeCom Server IP Address:** 172.16.6.58. Below this field is a note: "Write one server per line. Highest priority on top. Example: 192.168.1.5"
- SafeCom Server Port Number:** 7500
- Broadcast Subnets:** 255.255.255.255. Below this field is a note: "Write one subnet per line. Example: 255.255.255.255"
- Front End Language:** English (dropdown menu)
- Front End Identification:** CODE\_CARD (dropdown menu)
- Front End Timeout:** 60 (min 30 max 300 seconds)

At the bottom left, there is a "Save & Continue" button. At the bottom right, there is a link to "SafeCom Controller Administration". On the right side of the page, there is a "Summary" section with the following information:

- SafeCom Controller Name:** SafeCom Controller 2
- Contact Location:** Port
- Firmware:** S80 508.780\*42
- Ethernet MAC Address:** 00C076FF1403
- IP Address:** 172.16.6.100

**SafeCom Group Name**, **SafeCom Server Address** and **SafeCom Server Port Number** must be specified for the SafeCom Controller to work. It is possible to specify multiple SafeCom servers for the purpose of failover. The SafeCom Controller will attempt to contact the servers in their order of appearance (2.8.1).

If the IP Address is 0.0.0.0 the SafeCom Controller will send a broadcast on the **Broadcast subnets**.

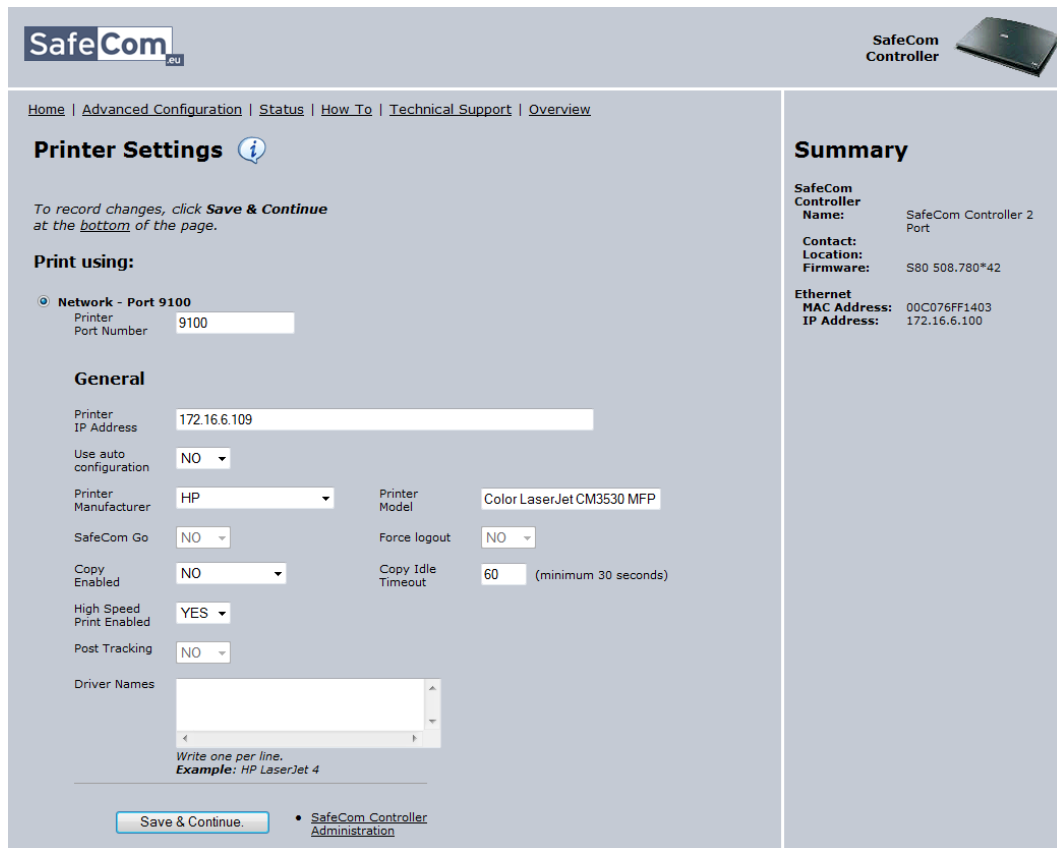
**Front End Language** determines the language used on the touch-screen of the SafeCom Front-end.

**Front End Identification** determines how users are identified. It can be **CODE\_CARD** (default), **CODE**, **CARD** or **Windows\_Auth**. The latter allows users to log in with Windows user logon and Windows password.


The **Front End Timeout** defaults to 60 seconds. Users will be logged out if they do not perform an operation on the touch-screen for this period.

## 2.7.4 Printer web page

The **Printer** web page can be opened from the **Advanced Configuration** web page (2.7.2) by clicking on **Printer**.



**SafeCom** EU

SafeCom Controller 

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### Printer Settings

To record changes, click **Save & Continue** at the bottom of the page.

**Print using:**

☒ **Network - Port 9100**

Printer Port Number:

**General**

Printer IP Address:

Use auto configuration:

Printer Manufacturer:  Printer Model:

SafeCom Go:  Force logout:

Copy Enabled:  Copy Idle Timeout:  (minimum 30 seconds)

High Speed Print Enabled:

Post Tracking:

Driver Names:

Write one per line.  
Example: HP LaserJet 4

• [SafeCom Controller Administration](#)

### Summary

**SafeCom Controller**

Name: SafeCom Controller 2 Port

Contact: Location: S80 508.780\*42

**Ethernet**

MAC Address: 00C076FF1403

IP Address: 172.16.6.100

Select **Network - Port 9100** if the SafeCom Controller connects to the printer via the network. On the obsolete SafeCom Controller 3 Port and 1 Port select **Parallel Port** if the printer is connected to the SafeCom Controller's **PAR1** port.

**Printer IP Address** must be correct if the SafeCom Controller is to control copying on any attached MFP. For fixed IP addresses, use the printer's IP address. For DHCP IP addresses, use the printer's hostname.

**Use auto-configuration** should normally be **YES** to allow the SafeCom Controller to automatically determine the **Printer Manufacturer** and **Print Model**. Both of these are used to ensure correct operation of the SafeCom MFP Cable. **SafeCom Go** should be **YES** if **Printer Manufacturer** is Xerox and the MFP is EIP-enabled.

**Copy Enabled** should be **YES** if a SafeCom MFP Cable is connected to control copying. The process of enabling Copy Control is MFP dependent and covered in more detail in 2.6.

**Copy Idle Timeout.** When the SafeCom controller automatically logs-out the user after the MFP is idle for a length of time. If **Idle timeout** is set to **0** there is no timeout.



**High Speed Print Enabled** should be **YES** if print data is to be sent directly (and unencrypted) to the printer from the SafeCom server rather than through the SafeCom Controller. The pace of high speed print is then comparable to that of printing the document directly to the printer.

SafeCom G2 version S82 070.380\*07 or higher can hold off Push printed documents while a user is logged in at the device. The directly printed document needs to be submitted via a SafeCom Push Port that is referencing the same tracking device.

Documents that are submitted via a standard TCP/IP port cannot be held off. There is the risk that the user standing at the device printing and copying may experience that other users' direct prints are printed between their own jobs.

**Post tracking** affects the following tracking data types for Pull print jobs:

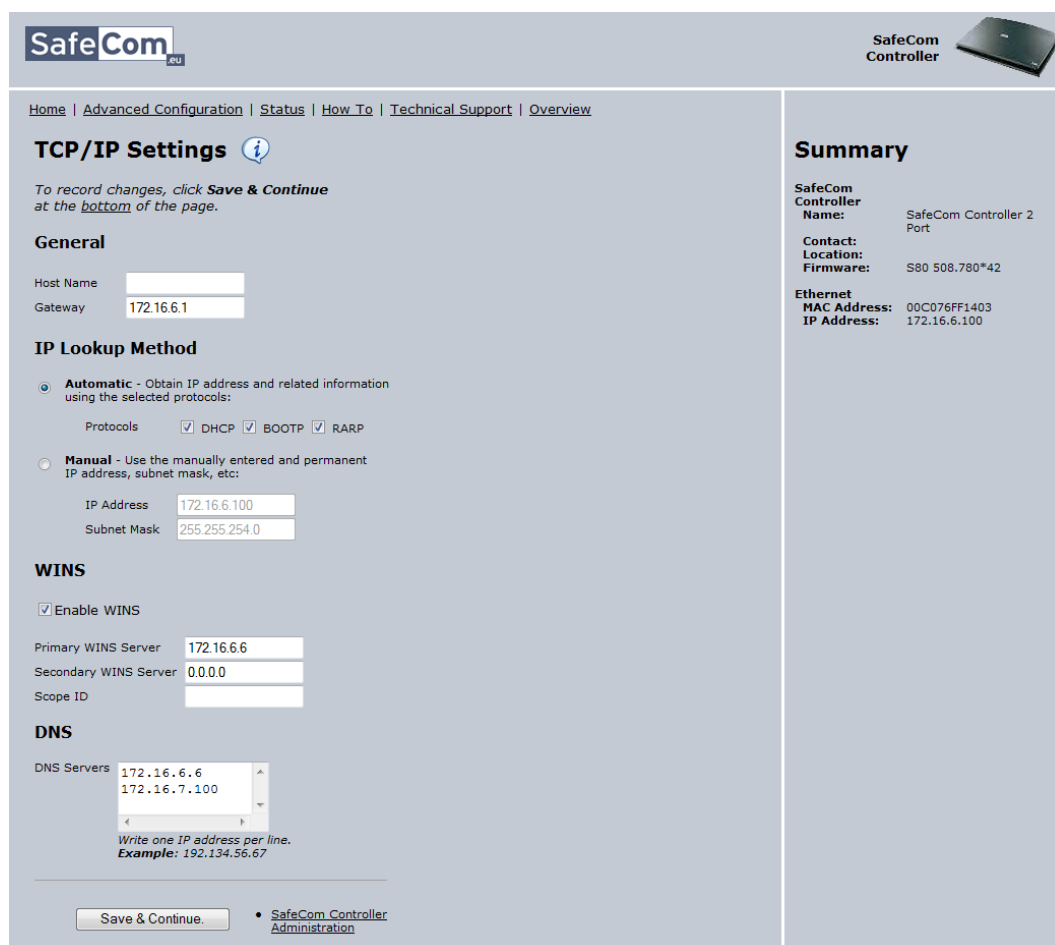
- **Tracking pages** (TrackingPageCount) is adjusted to reflect the actual number of pull printed pages. If a 100 page document is cancelled after 10 pages the job is only tracked (and priced) as 10 pages.
- **Color pages** (TrackingColorPageCount) is adjusted to reflect the actual number of pull printed pages with color.
- **Price 1** (JobPrice) and **Price 2** (JobPrice2) are adjusted as well to reflect the adjustment of Tracking pages and Color pages.

Post tracking is supported on SafeCom Controller with Canon devices (CPCA Protocol v.1. and v.2.), Ricoh devices and Xerox devices.


**Driver Names.** During Pull Printing, SafeCom compares the driver name embedded in the print job with its list of driver names. If there is no match, the document appears with a question mark [?] in the document list. This way the user is warned that fidelity is low and the document may print incorrectly.

## 2.7.5 TCP/IP web page

The **TCP/IP** web page can be opened from the **Advanced Configuration** web page (2.7.2) by clicking on **TCP/IP**.



**SafeCom** eu

SafeCom Controller 

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### TCP/IP Settings

To record changes, click **Save & Continue** at the **bottom** of the page.

#### General

Host Name

Gateway

#### IP Lookup Method

☒ **Automatic** - Obtain IP address and related information using the selected protocols:

Protocols ☒ DHCP ☒ BOOTP ☒ RARP

☐ **Manual** - Use the manually entered and permanent IP address, subnet mask, etc:

IP Address

Subnet Mask

#### WINS

☒ **Enable WINS**

Primary WINS Server

Secondary WINS Server

Scope ID

#### DNS

DNS Servers

Write one IP address per line.  
**Example:** 192.134.56.67

• [SafeCom Controller Administration](#)

#### Summary

**SafeCom Controller Name:** SafeCom Controller 2 Port

**Contact:**  
**Location:**  
**Firmware:** S80 508.780\*42

**Ethernet**  
**MAC Address:** 00C076FF1403  
**IP Address:** 172.16.6.100

Select **Automatic** as **IP Lookup Method**. The SafeCom Controller can obtain its IP address and related information automatically from a DHCP, BOOTP, or RARP server in the network. Or you can choose to use the manually specified IP address.

Check **Enable WINS** if Windows Internet Name Service (WINS) is enabled and the SafeCom Controller should register its IP address, NetBIOS name, and WorkGroup name with a WINS server.

**DNS Servers.** The SafeCom Controller uses the listed Domain Name System (DNS) servers to resolve hostnames and IP addresses. A maximum of 14 DNS servers can be specified.

## 2.8 SafeCom Controller - How to

### 2.8.1 Specify SafeCom server and printer connection

1. Open the **Advanced Configuration** web page (2.7.2).
2. Click **SafeCom** (2.7.3) and enter the **SafeCom Server address** (Hostname or IP address). It is possible to specify multiple SafeCom servers for the purpose of failover. The SafeCom Controller will attempt to contact the servers in their order of appearance. If the SafeCom server is clustered you must specify the address of the virtual server. Click **Save and Continue**.
3. Click **Printer** and check **Network - Port 9100**. Enter the **Printer IP address**.
4. Click **Save and Continue**.
5. Click **Restart**.

After approx. 1 minute the SafeCom Controller restarts and you can make a settings printout.

### 2.8.2 Register device

The device can be registered when a user with Technician or Administrator rights has logged in at the device. Once the device is registered it will appear in the **SafeCom Administrator**. The device is also registered when you add it in **SafeCom Administrator** (2.4).

**Note:** You can use the built-in Technician account *TECH* with the default PUK code 12345678 and default PIN code 1234.

### 2.8.3 Set password to prevent unauthorized access

To prevent unauthorized access to the SafeCom Controller's configuration we recommend that you change the password from the default: **adm**. To disable security, change the password back to **adm**.

1. Open the **Advanced Configuration** web page (2.7.2).
2. Click **Password**.
3. Enter the **Old Password**, **New Password** and **Verify Password**. The password is maximum 8 characters.
4. Click **Save and Continue**.
5. Click **Restart**.

**Warning:** Make sure to store the password in a secure place. If you forget the password you need to return the SafeCom Controller to SafeCom a/s for unlocking.

### 2.8.4 Select user identification

1. Open the **Advanced Configuration** web page (2.7.2).
2. Click **SafeCom. Change Front End Identification**.
3. Click **Save and Continue** to save your settings.
4. Select **Restart**. Click **Restart** again.

You must wait approx. 1 minute while the SafeCom Controller initializes.

### 2.8.5 Disable the test button

To prevent unauthorized users from restoring factory defaults, disable the SafeCom Controller's test button.

1. Open the **Advanced Configuration** web page (2.7.2).
2. Click **General**.
3. Change **Enable Test Button** to **NO**.
4. Click **Save and Continue**.
5. Click **Restart**.

### 2.8.6 Add driver names

The **Driver name** is the same as the **Model** listed in Windows on the **General** tab of the **Printer properties** dialog.

1. Open the **Advanced Configuration** web page (2.7.2).
2. Click **Printer**.
3. In **Driver names** enter the name of the drivers you believe are compatible with the printer. Documents generated with these drivers will not cause a fidelity warning if there is a mismatch.
4. Click **Save and Continue**.
5. Click **Restart**.

### 2.8.7 Assign a fixed IP address to the SafeCom Controller

The IP address can be assigned via DHCP (dynamic or fixed) or manually. The steps below describe how to assign a fixed IP address via the SafeCom Controller web interface.

1. Open the **Advanced Configuration** web page (2.7.2).
2. Click **TCP/IP**.
3. Check **Manual** and enter the **IP address** etc.
4. Click **Save and Continue**.
5. Click **Restart**.

### 2.8.8 Assign IP address using arp and ping

The **arp** command must be set on the same network segment as the SafeCom Controller. If your computer has an IP address of 194.192.134.90 and you are using a subnet mask of 255.255.255.0 then, the SafeCom Controller must have an IP address of 194.192.134.x, where x is a number between 1 and 254.

Since the IP address is a unique address for a host in a TCP/IP network, you must ensure that the IP address you intend to use is valid and is not used by anyone else on the network.

Hold down the SafeCom Controller's test button to restore factory defaults and ensure any existing IP address is deleted. Log on as an administrator and issue the **arp** command from the command prompt.

Syntax:

```
arp -s <IP Address> <MAC Address>
```

The MAC address can be found on the rear side of the SafeCom Controller. If you want to use the IP address: 194.192.134.86 for the SafeCom Controller and the 12-digit hexadecimal MAC address is 00C076FF00F2. Enter:

```
arp -s 194.192.134.86 00-C0-76-FF-00-F2
```

Now you have added an entry in the arp table for the SafeCom Controller. Use the **ping** command to give the SafeCom Controller its new IP address. Issue the **ping** command from the command prompt, the format is:

Syntax:

```
ping <IP Address>
```

For example if you want to use the IP address: 194.192.134.86 for the SafeCom Controller, enter:

```
ping 194.192.134.86
```

There is NO reply to the ping, as the device is in a special network mode where it cannot respond to ping. The ping is only to ensure that a local arp entry is made on the client computer.

### 2.8.9 Assign IP address using the SafeCom Color Front-end

If the SafeCom Controller is not given an IP address automatically, the SafeCom Color Front-end prompts you for an IP address, subnet mask, and gateway.

Use the dot (.) to step between the numbers in the addresses (x.x.x.x). Press **Select** to accept an address.

### 2.8.10 Specify help desk contact

The help desk contact is included on the OUT OF ORDER screen, which the SafeCom Front-end displays when communication is lost.

1. Open the **Advanced Configuration** web page (2.7.2).
2. Click **General**.
3. Enter the **Contact Person** (name, phone number).
4. Click **Save and Continue**.
5. Click **Restart**.

### 2.8.11 Specify printer's DNS name

If the SafeCom Controller is connected to the printer via the network you can reference the printer via Domain Name System (DNS). This way you specify the printer's DNS name instead of the printer's IP address.

1. Open the **Advanced Configuration** web page (2.7.2).

**Note:** *Normally you do not need to perform step 2-4, as the list of DNS servers is provided via DHCP.*

2. Click **TCP/IP**.
3. In **DNS Servers** you can enter the IP address of your DNS servers to resolve hostnames and IP addresses.
4. Click **Save and Continue**.
5. Click **Printer**.
6. In **Printer IP Address** enter the printer's DNS name or IP address.
7. Click **Save and Continue**.
8. Click **Restart**.

### 2.8.12 Specify the LAN speed

The obsolete SafeCom Controller 3 Port and 1 Port can operate at 10 or 100 Mbps. The SafeCom Controller will by default sense and decide the speed (100 Mbps, unless the number of ports using 10 Mbps are in majority). The **LAN Speed** can be set explicitly via the SafeCom Controller web interface.

1. Open the **Advanced Configuration** web page (2.7.2).
2. Click **Hub (3 Port)** or **LAN (1 Port)**.
3. Change **LAN Speed** from **AUTO** to either **10\_MBPS** or **100\_MBPS**.
4. Click **Save and Continue**.
5. Click **Restart**.

### 2.8.13 Enable Copy Control

Copy Control requires installation of a SafeCom MFP Cable plus some additional configuration. Refer to 2.6 for details. On the SafeCom Controller web interface you need to:

1. Open the **Advanced Configuration** web page (2.7.2).
2. Click **Printer** and change **Copy Enabled** to **YES** and change **Use auto configuration** to **YES**.
3. If required you can change **Copy Idle Timeout**. When the MFP has been idle for this timeout the user is automatically logged out. A value of 0 seconds means no timed logout.
4. Click **Save and Continue**.
5. Click **Restart**.

### 2.8.14 Restore factory default

You can either restore settings by holding down the SafeCom Controller's test button for 8 seconds, or from the SafeCom Controller web interface:

1. Open the **Advanced Configuration** web page (2.7.2).
2. Click **Restore Factory Default**.

### 2.8.15 Specify another port than 9100

1. Open the **Advanced Configuration** web page (2.7.2).
2. Click **Printer** and change **Printer Port Number** to the new port number.
3. Click **Save and Continue**.
4. Click **Restart**.

### 2.8.16 Enable High Speed Print

When High Speed Print is enabled print data is to be sent directly (and unencrypted) to the printer from the SafeCom server rather than through the SafeCom Controller.

1. Open the **Advanced Configuration** web page (2.7.2).
2. Click **Printer** and change **High Speed Print Enabled** to **YES**.
3. Click **Save and Continue**.
4. Click **Restart**.

### 2.8.17 Enable SafeCom Go

On the SafeCom Controller web interface you need to:

1. Open the **Advanced Configuration** web page (2.7.2).
2. Click **Printer** and change **Printer Manufacturer** to **XEROX** or **SHARP**.
3. Change **SafeCom Go** to **YES**.
4. Click **Save and Continue**.
5. Click **Restart**.

### 2.8.18 Control FTP and TELNET network access

By default the SafeCom Controller can be accessed via FTP to update software (2.9.1) and via TELNET to do troubleshooting if instructed to do so by support personnel. To disable these network access methods follow these steps:

1. Open the **Advanced Configuration** web page (2.7.2).
2. Click **General** and scroll to **Network Access**.
3. Change **Enable FTP** access to **No**.
4. Change **Enable TELNET** access to **No**.
5. Click **Save and Continue**.
6. Click **Restart**.

## 2.9 SafeCom Controller update software

1. Download the file(s) from the links supplied to you. Unzip the files. There are one current and two obsolete types of SafeCom Controllers:
  - **SafeCom Controller (p/n 10401x)**  
Features a built-in 2-port switch (no need for additional network outlet). Supports full-duplex transmission.  
Unzipped file: 508nnn.b80, where nnn is the version.
  - **SafeCom Controller 3 Port (obsolete)**  
Features a built-in 3-port hub (no need for additional network outlet). Supports half-duplex, but not full-duplex transmission.  
Unzipped file: 312nnn.b80, where nnn is the version.
  - **SafeCom Controller 1 Port (obsolete)**  
Features one network port, but supports full-duplex transmission.  
Unzipped file: 304nnn.b80, where nnn is the version.
2. Download the software file to the SafeCom Controller using one of the following methods:
  - **SafeCom Administrator**
  - **FTP (2.9.1)**
  - **Mini-FTP (2.9.2)**



### 2.9.1 Update software via FTP

This software update method preserves the current settings.

1. From the command prompt window, issue the **ftp** command. Enter:

```
ftp <IP address>
```

The SafeCom Controller prompts you for a username and a password. Both are **adm** by default.

2. Put the SafeCom Controller into software update mode by downloading the software file into the codes folder. Enter:

```
cd codes  
put <software file>.b80
```

The command prompt window displays the text "Restarting ... Login again to update the software".

3. Logout of the ftp session. Enter:

```
quit
```

4. Start a new ftp session and log in. Enter:

```
ftp <IP address>
```

The command prompt window displays the text "Logged in for software update".

5. Set the binary transfer type and download (**put**) the software file. Enter:

```
binary  
hash  
put <software file>.b80
```

The software is updated. The SafeCom Controller automatically restarts after a successful update and CRC check. Do not interfere with the SafeCom Controller until it has restarted.

6. Logout of the ftp session. Enter:

```
quit
```

## 2.9.2 Update software via Mini-FTP

This software update method clears all settings, including the IP address.

**Note:** *The SafeCom Controller does not respond to ping request while in mini-FTP mode.*

You can bring the SafeCom Controller into mini-FTP mode by holding the test button while you power on the SafeCom Controller, or from the SafeCom Controller web interface.

1. Open the **Advanced Configuration** web page.
2. Click **Restart to mini-FTP**.  
The SafeCom Controller prints a page with the text "Awaiting microcode download..."
3. Log on as an administrator and issue the **arp** command from the command prompt.

Syntax:

```
arp -s <IP Address> <MAC Address>
```

The MAC address can be found on the rear side of the SafeCom Controller. If you want to use the IP address: 194.192.134.86 for the SafeCom Controller and the 12-digit hexadecimal MAC address is 00C076FF00F2. Enter:

```
arp -s 194.192.134.86 00-C0-76-FF-00-F2
```

4. Use the **ping** command to give the SafeCom Controller its new IP address. Issue the **ping** command from the command prompt. Enter:

```
ping 194.192.134.86
```

5. From the command prompt issue the **ftp** command. Enter:

```
ftp <IP address>
```

The SafeCom Controller prompts you for a username and a password. Both are **adm** by default.

6. Set the binary transfer type and download (**put**) the software file. Enter:

```
binary
hash
put <software file>.b80
```

The software is updated. The SafeCom Controller automatically restarts after a successful update and CRC check.

7. Logout of the ftp session. Enter:

```
quit
```

8. You may wish to delete the static entry again. Enter:

```
arp -d 194.192.134.86
```

**Note:** *If you experience problems completing the software upload, we recommend isolating the SafeCom Controller and the computer being used for the upload. This should eliminate eventual network broadcast and network noise that could otherwise disturb the data being sent to the SafeCom Controller. One way of accomplishing this could be done by connecting the computer and controller to the same network switch, and removing network connections to that switch.*

## 2.10 Monitor link to SafeCom Color Front-end

The status of the serial link between the SafeCom Controller and the SafeCom Color Front-end is reflected in the SNMP value hrDeviceStatus (1.3.6.1.2.1.25.3.2.1.5) and can assume the value 2 (Running) or 5 (Down). A 3<sup>rd</sup> party SNMP tool can be used to monitor the status.

The SafeCom server the SafeCom Controller is connected to can write two related events in its **Event log**:

- Frontend has stopped communicating, check device <IP address>, safeCU state: <state>
- Frontend has resumed communication on device <IP address>

The events has SafeCom severity 4 (Warning) and the abstract is Check FE communication.

## 2.11 SafeCom Color Front-end, Cotag

### 2.11.1 Initial configuration via card

A Cotag configuration card need to be used with the SafeCom Front-end, Gotag initially in order for the reader to accept the customer's Cotag cards. Follow the steps below.

1. Unplug the SafeCom Front-end from power and the connection to the SafeCom Controller.
2. Power up the SafeCom Front-end.
3. Present the SafeCom supplied Cotag configuration card within 4 seconds.
4. When the reader beeps remove the configuration card (minimum half a meter away).
5. Within the next 8 seconds present any customer Cotag card.
6. When the beep sound the configuration process is completed.

## 3 Using SafeCom Color Front-end

### 3.1 Login

1. In most cases you initiate the login sequence by using your card. However, if login is by user code you start by touching the screen, entering the user code and tap **OK**.



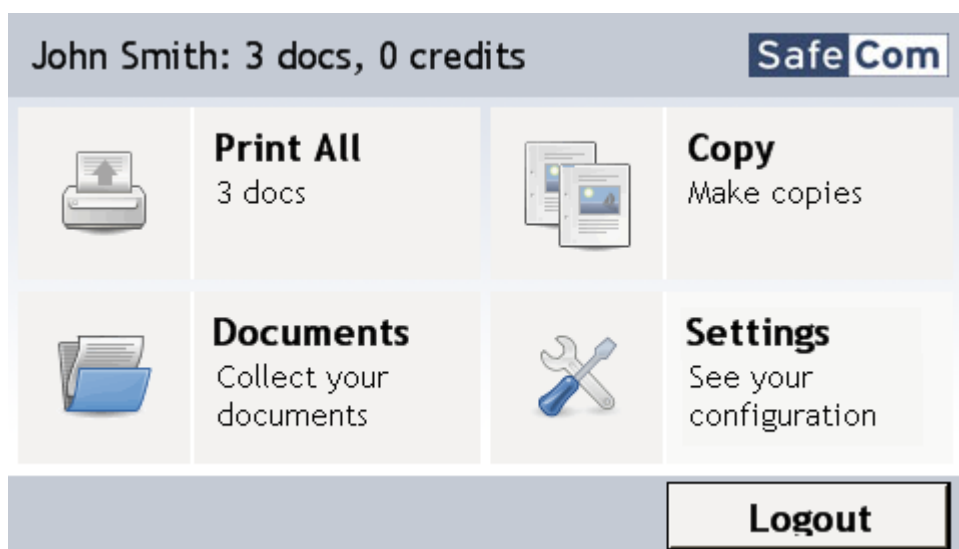
The image shows the SafeCom login interface. At the top, there is a grey header bar with the 'Safe Com' logo on the right. Below the header, the text 'Please touch screen to login' is centered, with a hand icon pointing upwards. Underneath this is a light blue rectangular area. At the bottom, there is a white login form. The form has a 'User code:' label on the left and a 'Clear' button on the right. Below the label is a numeric keypad with buttons for digits 1-9, 0, and a decimal point. To the left of the keypad is a red 'Cancel' button, and to the right is a green 'OK' button. A small white box containing 'à è ø' is located between the keypad and the 'OK' button.

2. Enter your 4-digit PIN code. This is not required if **Login without PIN code** is enabled for the user.



A screenshot of a PIN code entry interface. At the top left, the text "PIN code:" is displayed. To its right is a yellow "Clear" button. Below this is a numeric keypad with buttons for digits 1 through 9 arranged in a 3x3 grid, and a button for 0 centered below the grid. To the left of the keypad is a red "Cancel" button, and to the right is a green "OK" button.

3. Once logged in you can select an option from the touch-screen. Touch **Print All** to print all documents (except any retained documents). Documents are printed in chronological order (oldest first).



A screenshot of a user menu screen. At the top, it says "John Smith: 3 docs, 0 credits" on the left and the "SafeCom" logo on the right. Below this is a grid of four options, each with an icon and text: "Print All" (printer icon) with "3 docs" below it, "Copy" (document icon) with "Make copies" below it, "Documents" (folder icon) with "Collect your documents" below it, and "Settings" (wrench icon) with "See your configuration" below it. At the bottom right is a "Logout" button.

The **Copy** icon is only present if copy control is enabled (2.8.13).

## 3.2 Pull Print - Document list

Touch **Documents** to print individual documents. Documents appear in chronological order with the newest at the top of the list. If **Print all at login** is checked any documents pending collection will be printed first.

John Smith: 3 docs, 0 credits SafeCom

<input type="checkbox"/> R ? 1.10 Microsoft Word - Note...	Print all Back Refresh 1 copy
<input checked="" type="checkbox"/> 0.10 Test document	

Print	Retain	Delete	Info
-------	--------	--------	------

In the above example the preceding **R** shows the document is retained. The **0.10** is the cost of the document.

- Touch **Print all** to print all documents, excluding any retained documents. Documents are printed in chronological order (oldest first).
- Touch **Print** to print the selected documents.
- Touch **Retain** if you want the selected documents to remain on the list (server) after they have been printed.
- Touch **Delete** to delete the selected documents.
- Touch **Info** to see information about the selected documents, including cost, driver name, use of color and duplex.
- Touch **Back** to return to the main screen.
- Touch **Refresh** to update the list of documents with pending documents that has finished spooling after the user logged in.
- Touch **1 copy** to request multiple copies of a document. **Print all** will always be one copy of each document.

### 3.3 Copy

Once logged in touch **Copy** on the SafeCom Color Front-end touch-screen to allow copying. The actual copy process is done as described in the MFP's manual, typically by pressing a copy or start button.

John Smith: 3 docs, 0 credits **SafeCom**

**Copy**

Printer status: **Ready**

Pages copied: 1

Action: Start copy

**Exit copy**

There is a configurable **Copy idle timeout** that defaults to 60 seconds (2.8.13).

### 3.4 Logout

- Touch **Logout**.
- There is a configurable idle timeout of 60 seconds (2.7.3). Users will be logged out if they do not perform an operation on the touch-screen for this period.

### 3.5 First time login with PUK code

1. Login on the SafeCom Color Front-end.
2. Enter the 8-digit PUK code that you received by e-mail or from your Administrator.<sup>3</sup>

PUK code: **Clear**

1 2 3

4 5 6

7 8 9

**Cancel** 0 **OK**

3. The touch-screen will automatically prompt you for a 4-digit PIN code of your own choice. You must enter this again to verify it.

<sup>3</sup> This only takes place the first time you use a new card

## 3.6 Change PIN code

Users can change their PIN code if **Allow users to change PIN code** is checked on the **Users** tab in the **Server properties** dialog.

1. Log in on the SafeCom Color Front-end.
2. Touch **Settings** and then **Change PIN code**.
3. Enter the new PIN code twice.

## 3.7 Cleaning the touch-screen

1. Power off the SafeCom Color Front-end.
2. Gently wipe the display with a dry, lint-free, soft cloth.

If any stains remains:

3. Moisten a lint-free, soft cloth with water or a 50-50 mixture of isopropyl alcohol and water that does not contain impurities.
4. Wring out as much of the liquid as you can.
5. Wipe the display again; do not let any liquid drip into the computer.
6. Dry the display.

**Note:** *Anti-static LCD cleaning cloths are also acceptable alternatives. Isopropyl Alcohol is a flammable liquid. Do not use this cleaner near an exposed flame or when the system is on.*



## 4 Troubleshooting

### 4.1 SafeCom Help Desk Assistant

We want your SafeCom solution to be one that reduces not only print costs, but is also easy to support. In the following you will find useful troubleshoot hints. The most common problems reported by end-users have been compiled into an online **SafeCom Help Desk Assistant** available at [safecom.eu/help](https://safecom.eu/help)

### 4.2 At the printer: Out of order

This message is displayed when communication is lost to the SafeCom server. Check the following:

- Does the web page of the SafeCom device reference a SafeCom server and is the IP address and Group name correct?
- Is the SafeCom Service running on the SafeCom server?
- Is the network down?
- Is there a firewall blocking the communication?
- Is the SafeCom Controller connected to the network via the **LAN** port? If the network is up and running the port's green light should be on and it's yellow light should be flashing.
- Is the printer connected to the network?

The message is cleared and the device returns to normal operation by itself a couple of minutes after communication has been restored.

### 4.3 At the printer: User unknown

The used card (or entered user code) is unknown.

### 4.4 At the printer: Login denied

- Wrong PIN code.
- The device is not registered.
- Too many consecutive failed login attempts has caused **Prevent login** to be checked on the **Identification** tab in the **User properties** dialog.

If none of the above accounts for the message it could be because the Windows system on the SafeCom server does not allow any more connections. If you also get a "Connection error. Login failed" when you try to log in to **SafeCom Administrator**, then you should restart the computer.

## 4.5 At the printer: Restricted access

- The user is not allowed to use the device.
- A Pay user is trying to log in and Pay is not checked on the **License** tab in the **Device properties** dialog.

## 4.6 At the printer: Error printing document

- **Pull Print** is cleared on the **License** tab in the **Device properties** dialog.
- **Pull Print** is cleared on the **Settings** tab in the **Device properties** dialog.

## 4.7 At the printer: Question mark before the document name

The list of supported printer drivers does not include an entry matching the driver you used. Use the web browser to add the driver name to the list.

## 4.8 At the printer: Printer busy, retry later

The 'Print busy, retry later' message in the printer's control panel indicates that SafeCom cannot get exclusive ownership of the printer. With exclusive ownership it is ensured that it is your documents only that prints while you are logged in. If you get this message for no apparent reason it could also be because SNMP is disabled on the printer. Please enable SNMP on the printer.

## 4.9 At the printer: Login error <number>

- Is the SafeCom Service running on the SafeCom server?
- Is the SafeCom device registered at the SafeCom server?

## 4.10 At the printer: Error printing: General Failure

The document you are trying to print is no longer on the SafeCom server. This may happen if you log in at two or more devices and try to do a print all simultaneously.

## 4.11 At the printer: Card reading not working

- Is the card reader powered and firmly connected?
- Is the card compatible with the reader?
- Try to move the card reader away from the printer to check that if it is electrical interference that prevents the reader from working.

## 4.12 Document is not printed

- Is the print queue paused?
- Is the printer powered on and connected?
- Is the printer online?
- Is intervention required? Check for: 1) wrong paper size, 2) manual feed, 3) out of paper, 4) paper jam or 5) toner low.

## 4.13 At the printer: Printer is not available

The SafeCom Color Front-end displays: “Printer is not available. Please try later”. Check the following:

- Is the printer powered on and ready?
- Are the cables connected (2.2)?
- Does the printer’s IP address match the one defined in the SafeCom Controller?

It could also be because either the printer or the network is running at 10 Mbps. The SafeCom Controller can operate at 10 or 100 Mbps. The SafeCom Controller will by default sense and decide the speed (100 Mbps, unless the number of ports using 10 Mbps are in majority). The **LAN speed** can be set explicitly via a web browser.

## 4.14 Copy jobs are not tracked

Please check the following:

- On the SafeCom Controller’s **Printer** web page (2.7.4) **Copy Enabled** is **YES**.
- In **SafeCom Administrator** **Tracking** is checked on the **License** tab in the **Device properties** dialog.
- In **SafeCom Administrator** cost control is set to **Tracking** or **Pay** on the **Settings** tab in the **User properties** dialog.

## 4.15 Device web interface: Displayed incorrectly or settings not saved

Your web browser must allow use of JavaScript (Active Scripting). The steps below apply to **Internet Explorer**.

1. Start **Internet Explorer**.
2. On the **Tools** menu click **Internet Options...**
3. Click on the **Security** tab in the **Internet Options** dialog.
4. Click on **Custom Level...** to open the **Security Settings** dialog.
5. Scroll down to **Scripting**, **Active scripting** and click **Enable**.
6. Click **OK**.
7. Click **OK**.

## 5 Regulatory information

**WARNING NOTE:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**CAUTION:** Changes or modifications not expressly approved by SafeCom a/s could void the user's authority to operate this equipment according to part 15 of the FCC rules.

This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart B of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user will be required to take whatever measures may be required to correct the interference at his own expense.

**CE conformance:** This product has been developed and produced in accordance with the EMC directive and the Low Voltage directive and therefore carries the CE mark.

**EMC directive:** This product observes the rules and regulations of the EMC directive. If so required, a declaration of conformity in local language stipulating the applied rules and regulations can be obtained.

### Correct disposal of this product

(Waste Electrical & Electronic Equipment, WEEE directive): The WEEE directive is applicable within the European Union and other European countries that have similar waste collection systems. The marking on this product indicates that this product should not be disposed with other household waste. In order to prevent unintentional harm to the environment or human health, please separate this product from other types of waste. Recycle if possible to promote sustainable reuse of resources.



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